Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-18040-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 05.05.2017 to 04.05.2022 Date of issue: 15.06.2017

Holder of certificate:

CleanControlling GmbH
Labor für Technische Sauberkeit
Gehrenstraße 11 a, 78576 Emmingen-Liptingen

Testing in the fields:

Examination of Technical Cleanliness on metallic and non-metallic materials, components, systems and fluids using the test methods of extraction, gravimetry, microscopical analysis and infrared spectroscopy

Abbreviation used: see last page

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

DAkkS Deutsche Akkreditierungsstelle

Testing methods of extraction

ISO 16232-3 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Method of extraction of contaminants by pressure rinsing
ISO 16232-4 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Method of extraction of contaminants by ultrasonic techniques
ISO 16232-5 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Method of extraction of contaminants on functional test bench

Testing methods of gravimetry

ISO 16232-6 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Particle mass determination by gravimetric analysis

Testing methods of microscopic analysis

ISO 4406 1999-12	Hydraulic fluid power- Fluids – Method for coding the level of contamination by solid particles
ISO 4407 2002-04	Hydraulic fluid power- Fluid contamination – Determination of particulate contamination by the counting method using an optical microscope
ISO 16232-7 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Particle sizing and counting by microscopic analysis
ISO 16232-10 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Expression of results

VDA 19 2004	Quality management in the Automotive industry - Testing of Technical Cleanliness – Particulate Contamination of functionally-relevant Automotive Components
VDA Volume 19.1 2015	Testing of Technical Cleanliness – Particulate contamination of functionally-relevant automotive components

Examination or identification of unknown substances in organic and inorganic materials using infrared spectroscopy (FTIR)

ASTM E 1252 2013	Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis

Abbreviations used:

ISO	International Organization for Standardization
VDA	German Association of the Automotive Industry
ASTM	American Society for Testing and Materials